**PROGRAM NO. 09**

**DATE: 16/10/2024**

**AIM:** Implement intend to navigate between multiple activities USING INTENT.

**activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>

<LinearLayoutxmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent" android:layout\_height="wrap\_content"

android:orientation="vertical">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<TextView

android:id="@+id/textView3"

android:layout\_width="match\_parent"

android:layout\_height="75dp"

android:text="Registration Form"

android:textAlignment="center"

android:textColor="#D82020"

android:textSize="24sp" />

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<TextView

android:id="@+id/textView4"

android:layout\_width="120dp"

android:layout\_height="wrap\_content"

android:text="Name"

android:textSize="20sp" />

<EditText

android:id="@+id/e\_name"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:inputType="text" />

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<TextView

android:id="@+id/textView5"

android:layout\_width="120dp"

android:layout\_height="wrap\_content"

android:text="Email"

android:textSize="20sp" />

<EditText

android:id="@+id/e\_email"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:inputType="text" />

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<TextView

android:id="@+id/textView6"

android:layout\_width="120dp"

android:layout\_height="wrap\_content"

android:text="Password"

android:textSize="20sp" />

<EditText

android:id="@+id/e\_pwd"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:inputType="textPassword" /></LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="vertical">

<TextView

android:id="@+id/gender\_text"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Gender"

android:textSize="20sp" />

<RadioGroup

android:id="@+id/gender"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content">

<RadioButton

android:id="@+id/e\_female"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Female" />

<RadioButton

android:id="@+id/e\_male"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Male" />

</RadioGroup></LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<CheckBox

android:id="@+id/checkBox"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="I Agree" /></LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<Button

android:id="@+id/submit\_button"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Submit"

android:onClick="onClickSubmit" />

</LinearLayout></LinearLayout>

**Mainactvity.java**

com.example.myapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle; import

android.view.View; import

android.widget.CheckBox; import

android.widget.EditText; import

android.widget.RadioButton; import

android.widget.RadioGroup;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

EditTexte\_name, e\_email, e\_pwd;

RadioGroup gender;

RadioButtone\_female, e\_male;

CheckBoxcheckBox;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main); e\_name =

findViewById(R.id.e\_name); e\_email =

findViewById(R.id.e\_email); e\_pwd =

findViewById(R.id.e\_pwd); gender =

findViewById(R.id.gender); e\_female =

findViewById(R.id.e\_female); e\_male =

findViewById(R.id.e\_male);

checkBox = findViewById(R.id.checkBox);

}

public void onClickSubmit(View view) {

booleanisAllFieldsChecked = checkedAllFields();

if (isAllFieldsChecked) {

Intent intent = new Intent(MainActivity.this, MainActivity2.class);

intent.putExtra("name", e\_name.getText().toString()); intent.putExtra("email",

e\_email.getText().toString()); intent.putExtra("gender",

gender.getCheckedRadioButtonId() == R.id.e\_male ?

"Male" : "Female");

startActivity(intent);

}}

private booleancheckedAllFields() {

if (e\_name.length() == 0) {

e\_name.setError("Please Enter Your Name");

return false;

}

if (e\_email.length() == 0) {

e\_email.setError("Email required");

return false;

} else {

String s\_email = e\_email.getText().toString();

String checkEmailPattern = "^[a-zA-Z0-9.\_%+-]+@[a-zA-Z0-9.-]+\\.[a-zA-Z]{2,}$";

if (!s\_email.matches(checkEmailPattern)) { e\_email.setError("Select a valid

email"); return false;

}}

if (e\_pwd.length() < 8) {

e\_pwd.setError("Please enter a valid password");

return false;

}

if (gender.getCheckedRadioButtonId() == -1) {

e\_female.setError("Please choose gender");

Toast.makeText(this, "Select gender", Toast.LENGTH\_SHORT).show();

e\_female.requestFocus();

return false;

}

if (!checkBox.isChecked()) {

checkBox.setError("Please agree!");

Toast.makeText(this, "Please agree to the terms", Toast.LENGTH\_SHORT).show();

checkBox.requestFocus();

return false;

}

return true;

} }

**Mainactivity\_2.xml**

<?xml version="1.0" encoding="utf-8"?>

<LinearLayoutxmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent" android:orientation="vertical"

android:padding="16dp">

<TextViewandroid:id="@+id/textView"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="REGISTERED DETAILS"

android:textAlignment="center"

android:textSize="16sp" />

<TextViewandroid:id="@+id/displayName"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textSize="18sp" />

<TextViewandroid:id="@+id/displayEmail"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textSize="18sp" />

TextViewandroid:id="@+id/displayGender"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textSize="18sp" />

</LinearLayout>

**MainActivity2.java**

com.example.myapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle; import

android.widget.TextView; import

android.widget.Toast;

public class MainActivity2 extends AppCompatActivity {

TextViewdisplayName, displayEmail, displayGender;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main2);

Toast.makeText(this, "Login successfully Completed", Toast.LENGTH\_SHORT).show();

displayName = findViewById(R.id.displayName); displayEmail =

findViewById(R.id.displayEmail); displayGender = findViewById(R.id.displayGender);

String name = getIntent().getStringExtra("name");

String email = getIntent().getStringExtra("email"); String

gender = getIntent().getStringExtra("gender");

displayName.setText("Name: " + name);

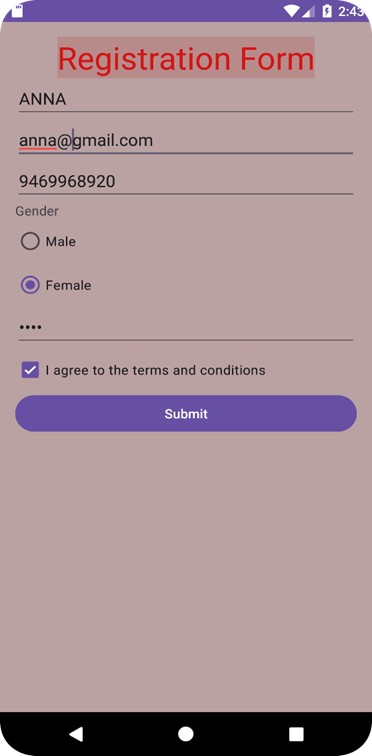
displayEmail.setText("Email: " + email);

displayGender.setText("Gender: " + gender);

}

}

**OUTPUT**

** **

**PROGRAM NO. 10**

**DATE: 23/10/2024**

**AIM:**Develop an application that uses Array Adaptor with list view.

**MainActivity.xml**

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayoutxmlns:android="http://schemas.android.com/apk/res/android"  
xmlns:app="http://schemas.android.com/apk/res-auto"  
xmlns:tools="http://schemas.android.com/tools"  
android:layout\_width="match\_parent"  
android:layout\_height="match\_parent"  
tools:context=".MainActivity">  
<ListView  
android:id="@+id/lv"  
android:layout\_width="match\_parent"  
android:layout\_height="match\_parent" /></LinearLayout>

**layout.xml**

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayoutxmlns:android="http://schemas.android.com/apk/res/android"  
android:id="@+id/LinearLayout"  
android:layout\_width="match\_parent"  
android:layout\_height="match\_parent"  
android:orientation="horizontal"  
android:textAlignment="center">  
<TextView  
android:id="@+id/MONTH"  
android:layout\_width="wrap\_content"  
android:layout\_height="wrap\_content"  
android:layout\_weight="1"  
android:text="Month"  
android:textAlignment="center" />  
</LinearLayout>

**MainActivity.java**

package com.example.listview;  
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.AdapterView;  
import android.widget.ArrayAdapter;  
import android.widget.ListView;  
import android.widget.Toast;  
public class MainActivity extends AppCompatActivity {  
ListView lv;  
 String[] s={"Mon","Tue","Wed","Thr","Fri","Sat","Sun"};  
@Override  
 protected void onCreate(Bundle savedInstanceState) {  
super.onCreate(savedInstanceState);  
setContentView(R.layout.*activity\_main*);

lv=findViewById(R.id.*lv*);  
ArrayAdapter<String>adapter=new ArrayAdapter<String>(this,R.layout.*layout*,R.id.*MONTH*,s);  
lv.setAdapter(adapter);  
lv.setOnItemClickListener(new AdapterView.OnItemClickListener() {  
 @Override  
 public void onItemClick(AdapterView<?>adapterView, View view, inti, long l) {  
 Toast.*makeText*(getApplicationContext(),lv.getItemAtPosition(i).toString(),Toast.*LENGTH\_LONG*).show();}  
 });  
 }}

**OUTPUT**



**PROGRAM NO. 11**

**DATE: 30/11/2024**

**AIM:** Develop an application to implement an options menu.

**Activity.java**

package com.example.optionmenu;  
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.Menu;  
import android.view.MenuInflater;  
import android.view.MenuItem;  
import android.widget.Toast;  
public class MainActivity extends AppCompatActivity {  
@Override  
 protected void onCreate(Bundle savedInstanceState) {  
super.onCreate(savedInstanceState);  
setContentView(R.layout.*activity\_main*);  
 }  
 public booleanonCreateOptionsMenu(Menu menu) {  
MenuInflaterinflater = getMenuInflater();  
inflater.inflate(R.menu.*menu1*, menu);  
 return true;  
 }  
public booleanonOptionsItemSelected(MenuItem item) {  
 if (item.getItemId() == R.id.*item1*) {  
Toast.*makeText*(this, "Item1", Toast.*LENGTH\_LONG*).show();  
 } else if (item.getItemId() == R.id.*item2*) {  
Toast.*makeText*(this, "Item2", Toast.*LENGTH\_LONG*).show();  
 } else {  
Toast.*makeText*(this, "Item3", Toast.*LENGTH\_LONG*).show();  
 }  
 return true;  
 }  
}

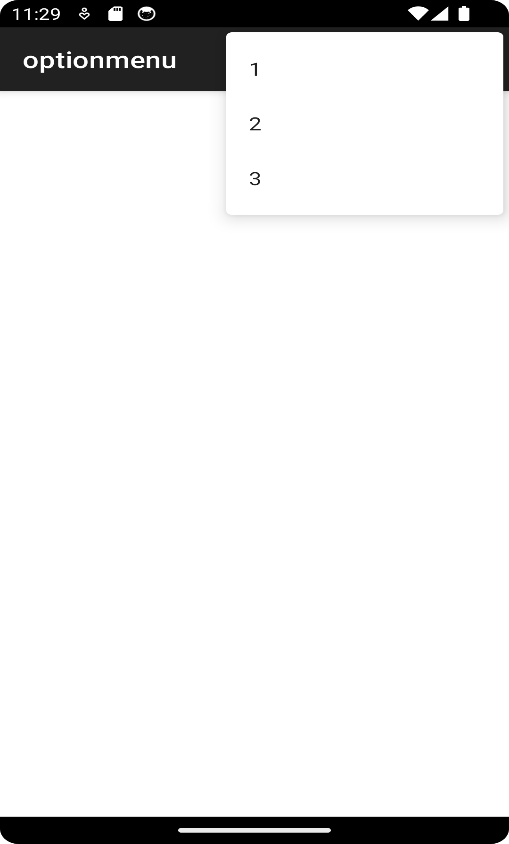
**Menu1.xml**

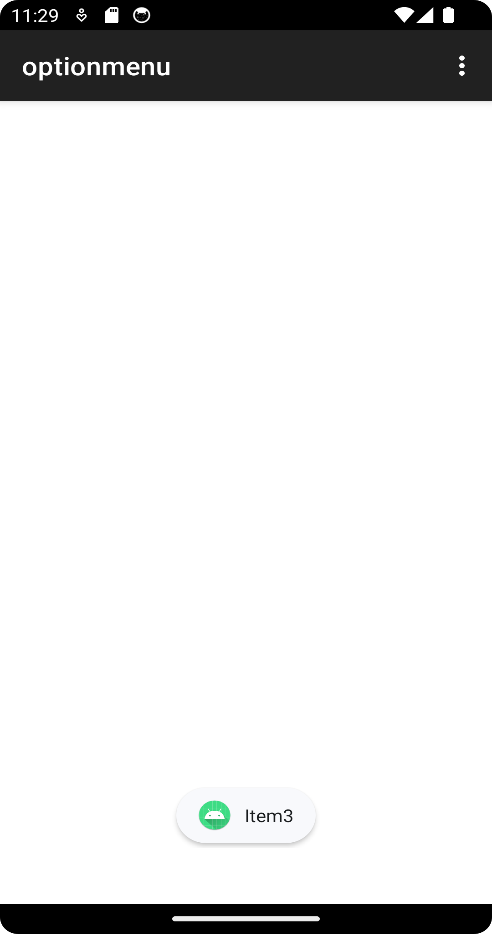
<?xml version="1.0" encoding="utf-8"?>  
<menu xmlns:android="http://schemas.android.com/apk/res/android">  
  
<item  
android:id="@+id/item1"  
android:layout\_width="wrap\_content"  
android:layout\_height="wrap\_content"  
android:title="1" />  
<item  
android:id="@+id/item2"  
android:layout\_width="wrap\_content"  
android:layout\_height="wrap\_content"  
android:title="2" />  
<item  
android:id="@+id/item3"  
android:layout\_width="wrap\_content"  
android:layout\_height="wrap\_content"  
android:title="3" />  
</menu>

**Themes.xml**

<resources xmlns:tools="http://schemas.android.com/tools">  
<!-- Base application theme. -->  
<style name="Base.Theme.Optionmenu" parent="Theme.MaterialComponents.DayNight.DarkActionBar">  
<!-- Customize your light theme here. -->  
<!-- <item name="colorPrimary">@color/my\_light\_primary</item> -->  
</style>  
  
<style name="Theme.Optionmenu" parent="Base.Theme.Optionmenu" />  
</resources>

**OUTPUT**



**PROGRAM NO. 12**

**DATE: 06/11/2024**

**AIM: Create database using SQLite and perform insert , select, update and delete on**

**SQLite database.**

**Mainactivity.xml**

<?xml version="1.0" encoding="utf-8"?>

<LinearLayoutxmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical">

<TextViewandroid:id="@+id/head"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="EMPLOYEE REGISTRATION"

android:textAlignment="center"

android:textColor="#9C27B0"

android:textSize="20sp" />

<EditText

android:id="@+id/ET\_id"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10" android:hint="ID"

android:inputType="textPersonName" />

<EditText

android:id="@+id/ET\_name"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Name"

android:inputType="textPersonName" />

<EditText

android:id="@+id/ET\_place"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Place"

android:inputType="textPersonName" />

<Button

android:id="@+id/B\_SUBMIT"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:backgroundTint="#9C27B0"

android:text="INSERT"

android:textColor="@color/white"

android:textColorHighlight="#009688"

android:textColorHint="#009688"

android:textColorLink="#009688" />

<Button

android:id="@+id/B\_sel"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:backgroundTint="#9C27B0"

android:text="SELECT" />

<Button

android:id="@+id/B\_update"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:backgroundTint="#9C27B0"

android:text="UPDATE" />

<Button

android:id="@+id/B\_delete"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:backgroundTint="#9C27B0"

android:text="DELETE" />

<Button

android:id="@+id/B\_clear"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:backgroundTint="#9C27B0"

android:text="CLEAR" />

<TextView

android:id="@+id/T\_id"

android:layout\_width="match\_parent"

android:layout\_height="46dp" />

<TextView

android:id="@+id/T\_name"

android:layout\_width="match\_parent"

android:layout\_height="55dp" />

<TextView

android:id="@+id/T\_place"

android:layout\_width="match\_parent"

android:layout\_height="47dp" /> </LinearLayout></LinearLayout>

**MainActivity.java**

package com.example.database;

import androidx.appcompat.app.AlertDialog;

import androidx.appcompat.app.AppCompatActivity; import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

import android.os.Bundle; import

android.view.View; import

android.widget.Button; import

android.widget.EditText; import

android.widget.TextView; import

android.widget.Toast;

import java.util.ArrayList;

public class MainActivity extends AppCompatActivity {

EditTextename,eplace,eid;

Button bsubmit,bsel,bup,bdel,bclr;

TextViewtid,tname,tplace;

SQLiteDatabasedb;

AlertDialog.Builder builder;

@Override protected void onCreate(BundlesavedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

ename=(EditText) findViewById(R.id.ET\_name);

eplace=(EditText) findViewById(R.id.ET\_place);

eid=(EditText)findViewById(R.id.ET\_id);

bsubmit=(Button) findViewById(R.id.B\_SUBMIT);

bsel=(Button) findViewById(R.id.B\_sel);

tid=(TextView) findViewById(R.id.T\_id);

tname=(TextView) findViewById(R.id.T\_name);

tplace=(TextView) findViewById(R.id.T\_place);

bup=(Button) findViewById(R.id.B\_update);

bdel=(Button)findViewById(R.id.B\_delete);

bclr=(Button)findViewById(R.id.B\_clear);

builder = newAlertDialog.Builder(this);

try{

db = openOrCreateDatabase("empdb", MODE\_PRIVATE, null);

db.execSQL("Create table employee(id integer primary key,nameText,place Text)");

Toast.makeText(getApplicationContext(), "Created Successfully",

Toast.LENGTH\_SHORT).show();

}

catch(Exception e){

}

bsubmit.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

try {

db.execSQL("Insert into employee values

("+eid.getText().toString()+",'"+ename.getText().toString()+"','"+eplace.getText().toString()+

"')");

Toast.makeText(getApplicationContext(), "Record Inserted Successfully",

Toast.LENGTH\_SHORT).show();

}

catch (Exception e) {

Toast.makeText(getApplicationContext(), "Error in Data",

Toast.LENGTH\_SHORT).show();

}}

});

bclr.callOnClick();

bsel.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Cursor c = db.rawQuery("select \* from employee ", null);

if (c.getCount() == 0) {

Toast.makeText(getApplicationContext(), "No such record",

Toast.LENGTH\_SHORT).show();

} else {

/\* c.moveToFirst();

tid.setText(c.getString(0));

tname.setText(c.getString(1));

tplace.setText(c.getString(2));

}\*/

StringBuffer b = new StringBuffer();

while (c.moveToNext()) {

b.append("Id:" + c.getString(0) + "\n");

b.append("Name:" + c.getString(1) + "\n");

b.append("Place:" + c.getString(2) + "\n");

// on below line we are creating a new array list.

}

Toast.makeText(getApplicationContext(), b.toString(),

Toast.LENGTH\_LONG).show();

builder.setMessage(b.toString());

AlertDialog alert = builder.create();

alert.setTitle("Employee Data");

alert.show();

}}

});

bup.setOnClickListener(new View.OnClickListener() {

@Override public void

onClick(View view) {

db.execSQL("update employee set

name='"+ename.getText().toString()+"',place='"+eplace.getText().toString()+"' where

id="+eid.getText().toString()+"");

Toast.makeText(getApplicationContext(), "updated....",

Toast.LENGTH\_SHORT).show(); }

});

bdel.setOnClickListener(new View.OnClickListener() {

@Override public void

onClick(View view) {

db.execSQL("delete from employee where id="+eid.getText().toString());

Toast.makeText(getApplicationContext(), "Item Deleted",

Toast.LENGTH\_SHORT).show(); }

});

bclr.setOnClickListener(new View.OnClickListener() {

@Override public void

onClick(View view) {

eid.setText("");

ename.setText("");

eplace.setText("");

}});

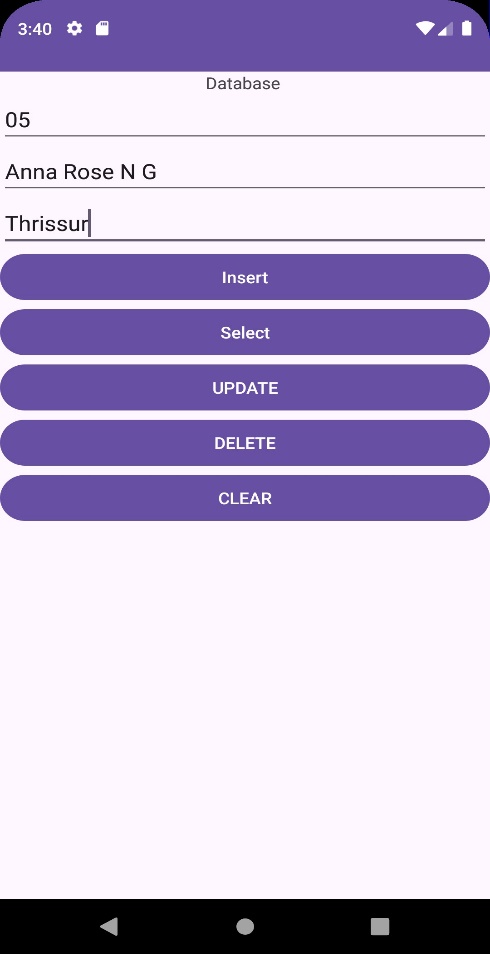
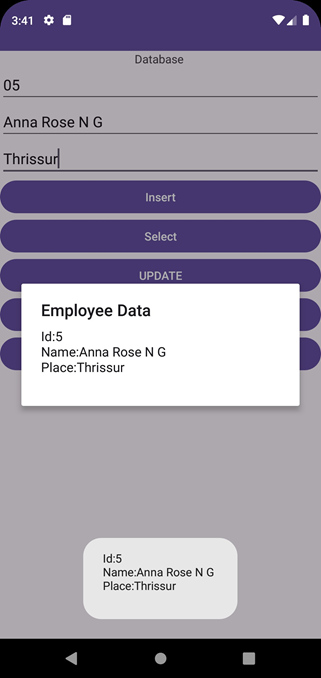
bclr.callOnClick();

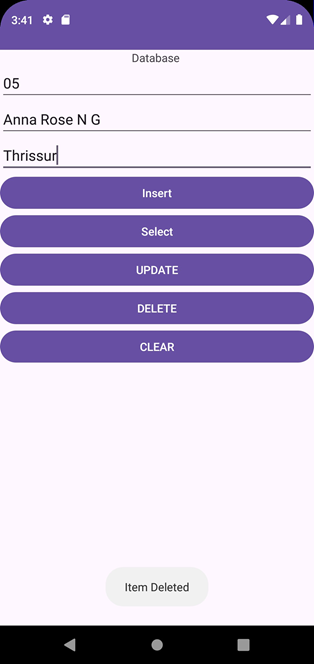
}

}

}

**OUTPUT**

****